

CLEAN VERSION OF REWRITTEN CLAIMS  
PURSUANT TO 37 CFR § 1.21 (c)(1)(i)

Please cancel, without prejudice, claims 20, 21, 22.

Please enter the following amended claims:

- F1
- (Thrice Amended) 1. A method for the detection of multiple sclerosis comprising:
- a) providing: i) a first brain tissue sample from a human suspected of having a demyelinating disease, ii) a second brain tissue sample from a human free from the pathological manifestations of a demyelinating disease, and iii) iron binding protein;
  - b) reacting, in vitro, said first and second brain tissue samples with said iron binding protein; and
  - c) comparing the degree of binding of said iron binding protein with said first and second brain tissue samples wherein a difference in said binding confirms the detection of multiple sclerosis in said first tissue sample.

- F2
- (Thrice Amended) 17. A method for the detection of multiple sclerosis comprising:
- a) providing: i) a first brain tissue sample from a human suspected of having a demyelinating disease, ii) a second brain tissue sample from a human free from the pathological manifestations of a demyelinating disease, and iii) iron binding protein wherein said iron binding protein is linked to a detectable marker;
  - b) reacting, in vitro, said first and second brain tissue samples with said iron binding protein; and

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F2

- c) comparing the degree of binding of said iron binding protein with said first and second brain tissue samples wherein a difference in said binding confirms the detection of multiple sclerosis in said first tissue sample.
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